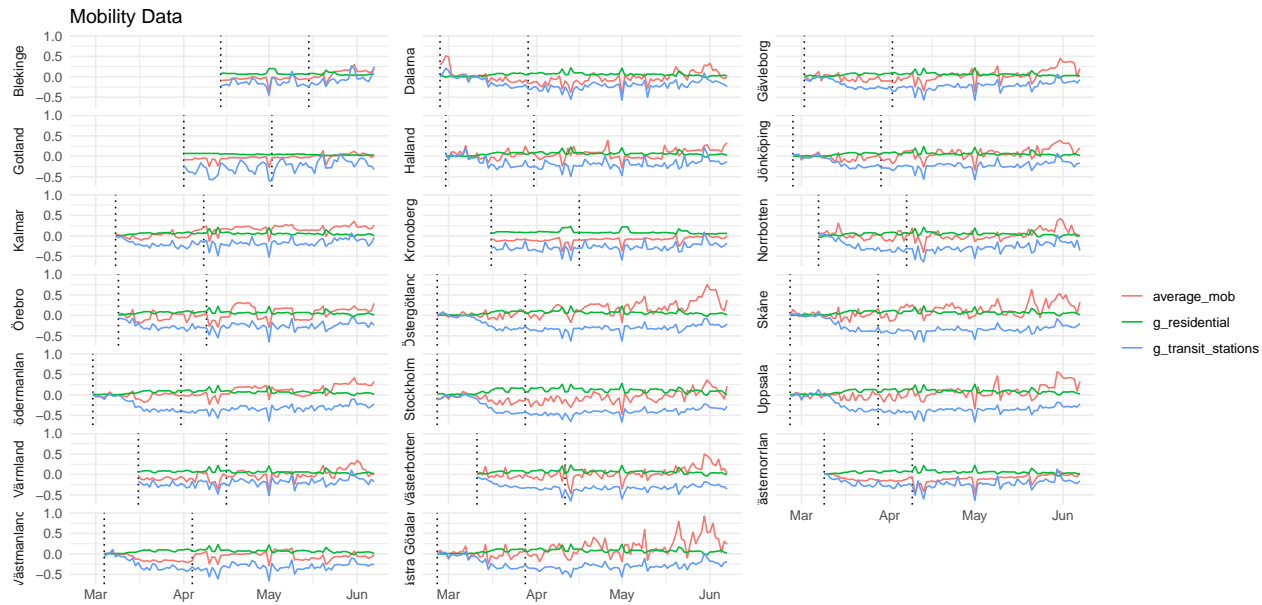
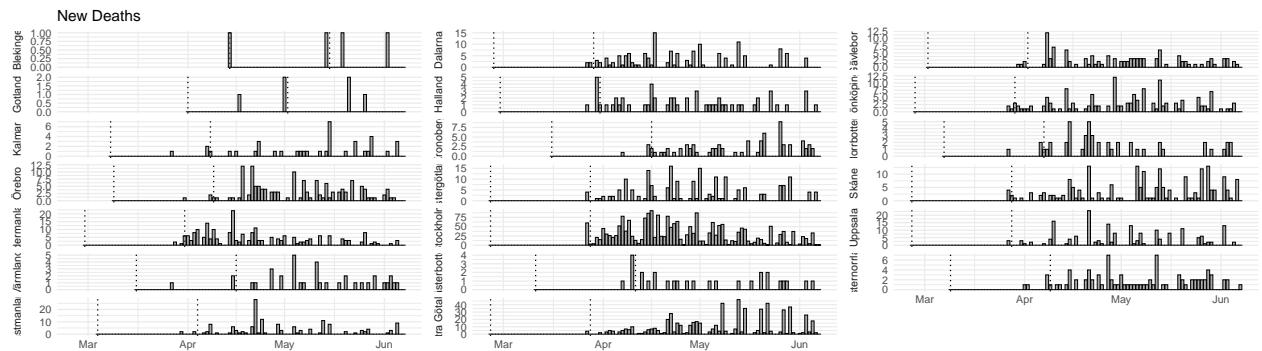
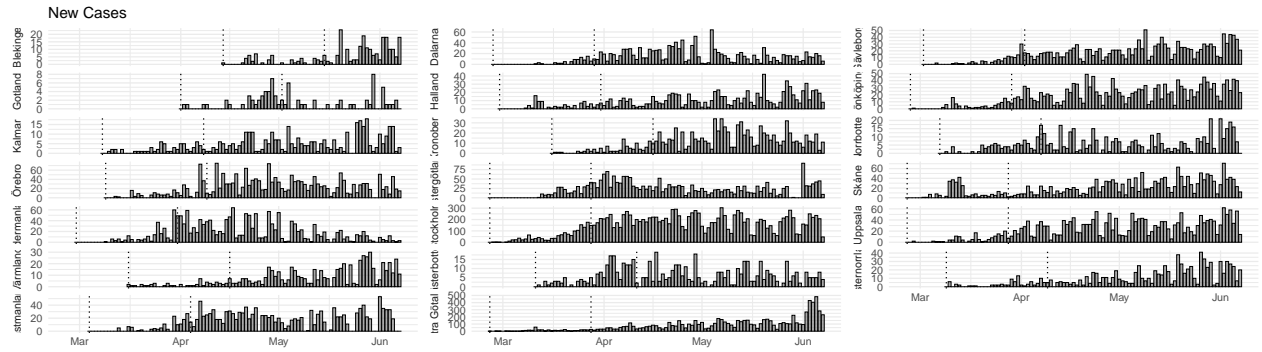


# Sweden

## Data



# Analysis

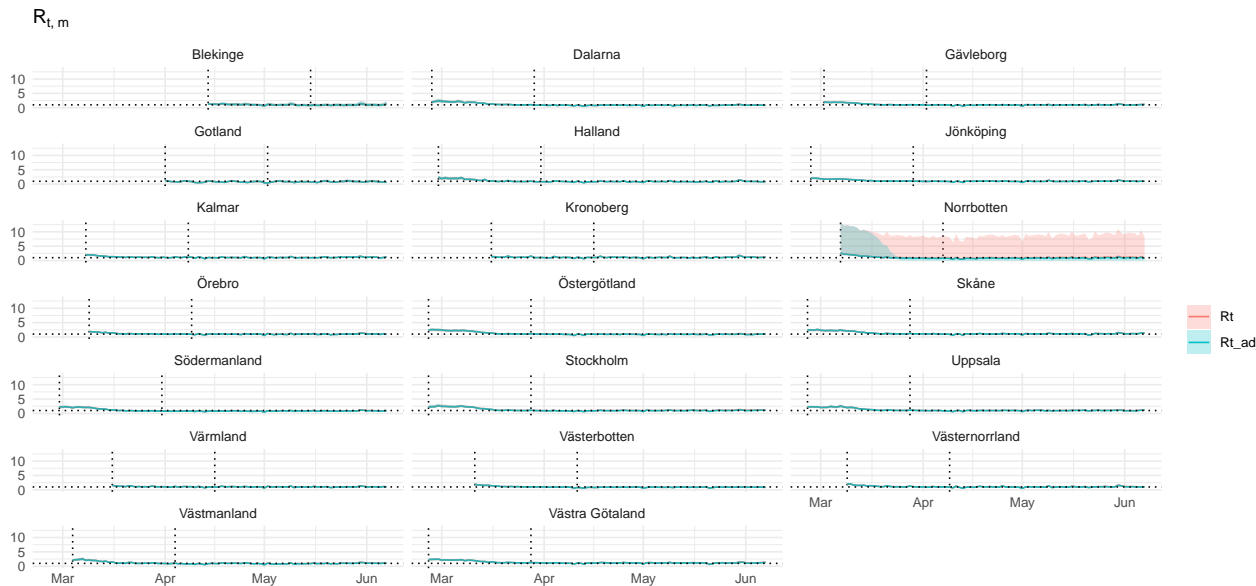
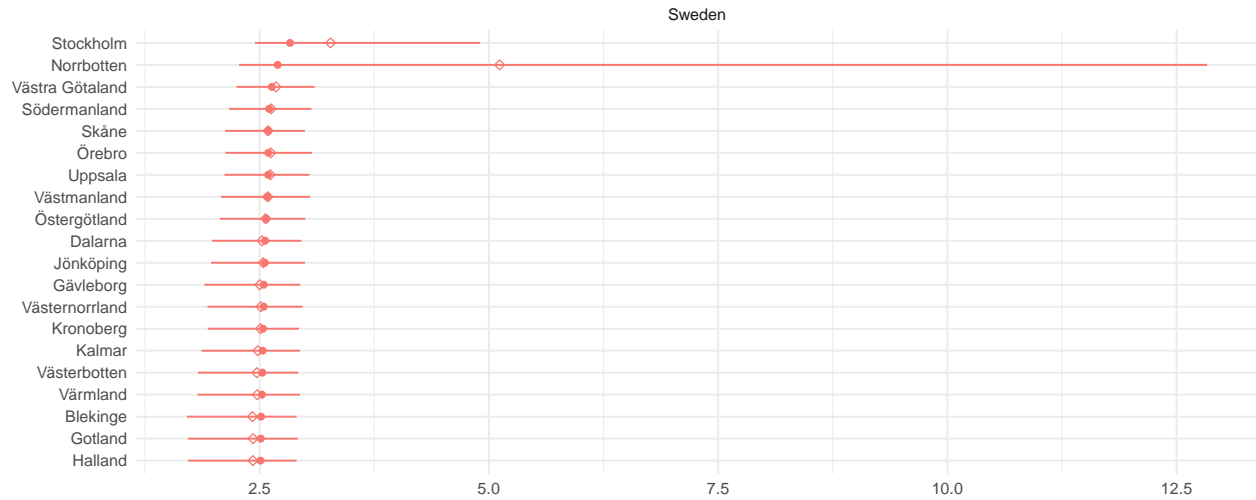
Number of divergent transitions =

Maximum  $\hat{R}$  =

Minimum Bulk ESS =

Minimum Tail ESS =

$R_{0,m}$



Vertical dotted lines represent the first seeding day and the epidemic start date. Ribbons represent the 80% credible intervals.

Contact rate function:

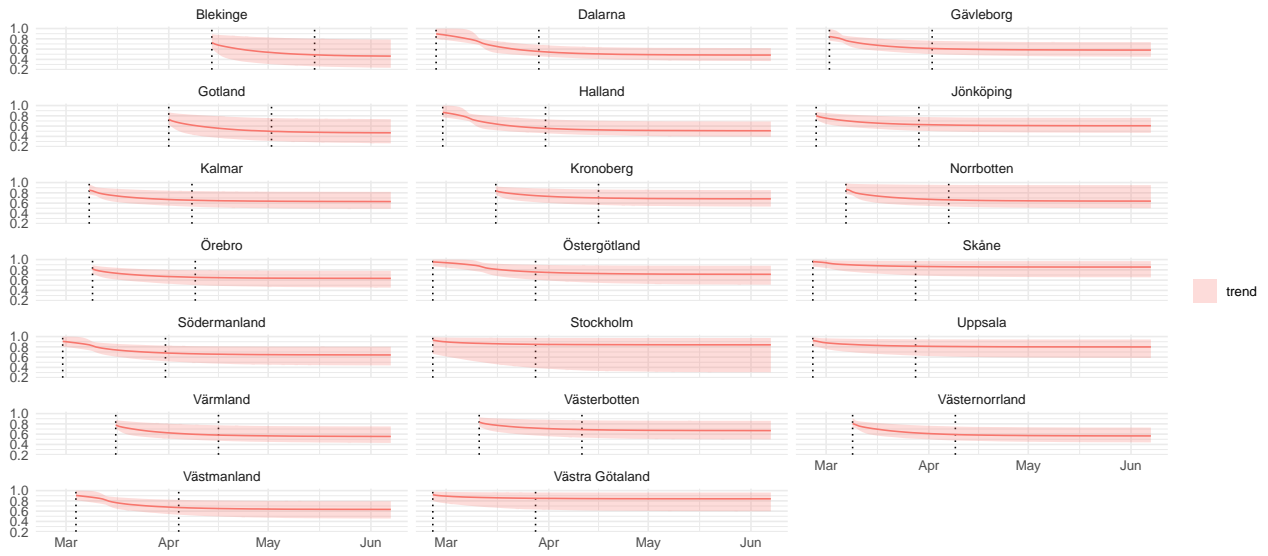
$$cr(t; t^*, \lambda_j, \kappa) = \lambda_j + \frac{1 - \lambda_j}{1 + \exp(\kappa(t - t^*))}$$

where

$$\lambda_j \sim \text{Beta}(3, 1)$$

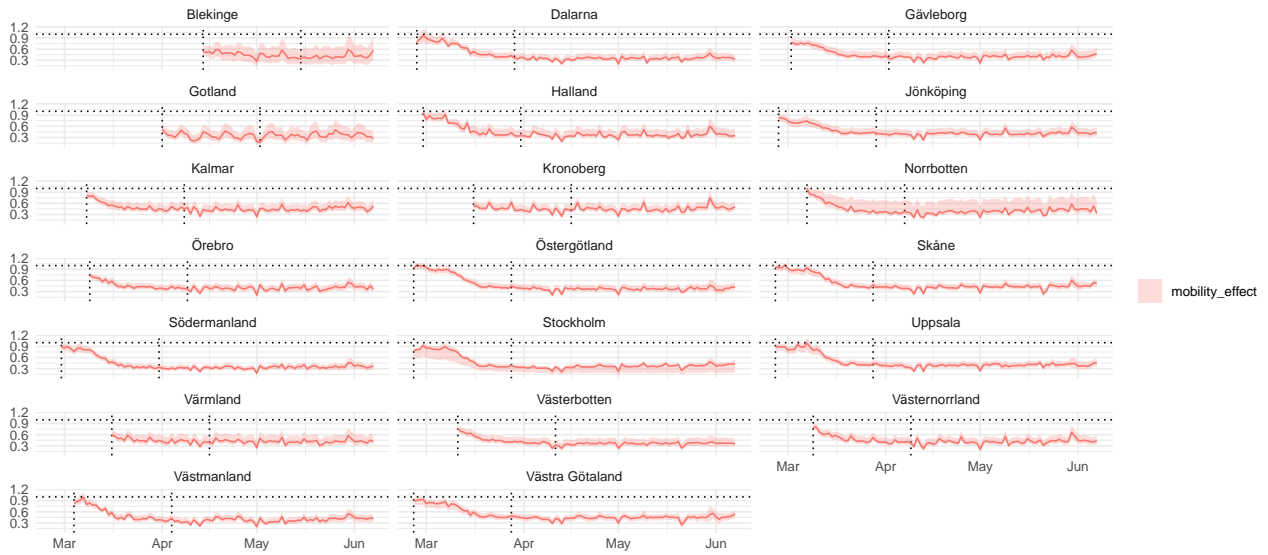
$$\kappa \sim \text{NegHalfNormal}(0, 1).$$

### Contact Rate

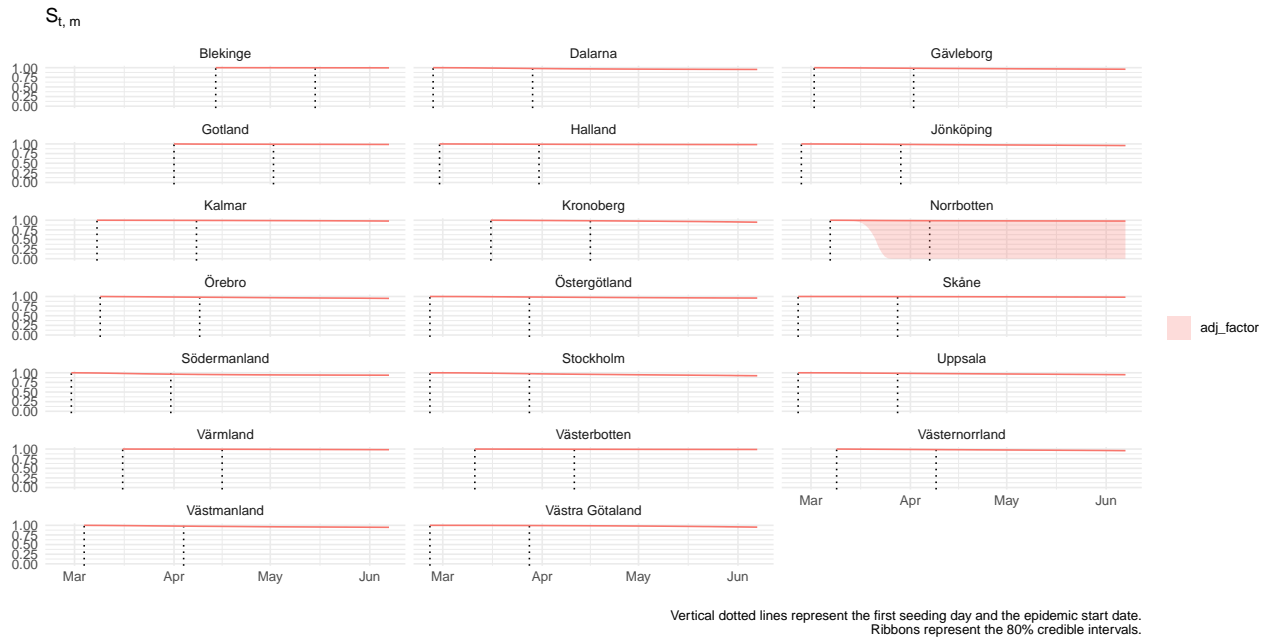


Vertical dotted lines represent the first seeding day and the epidemic start date.  
Ribbons represent the 80% credible intervals.

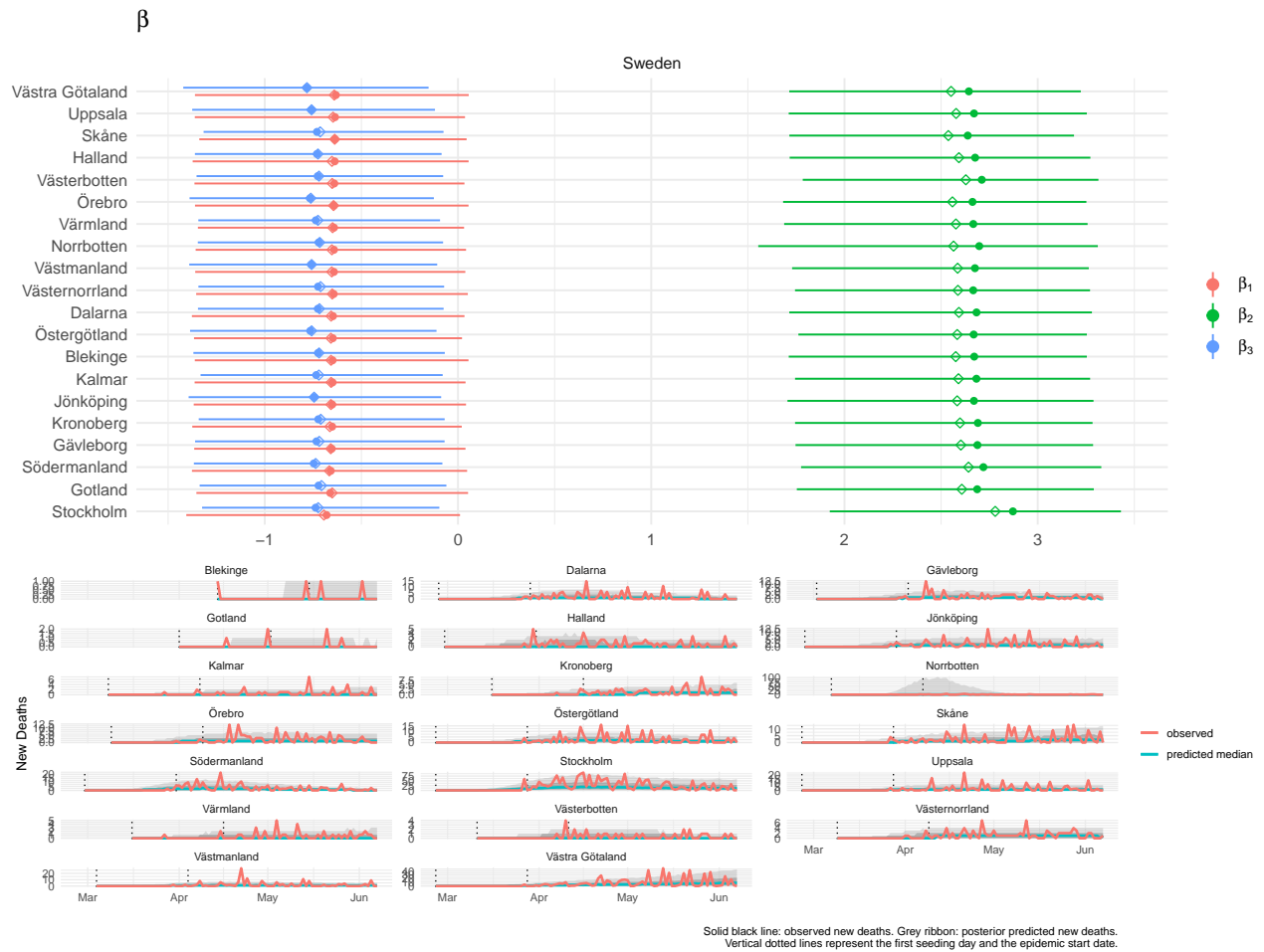
### Mobility effect



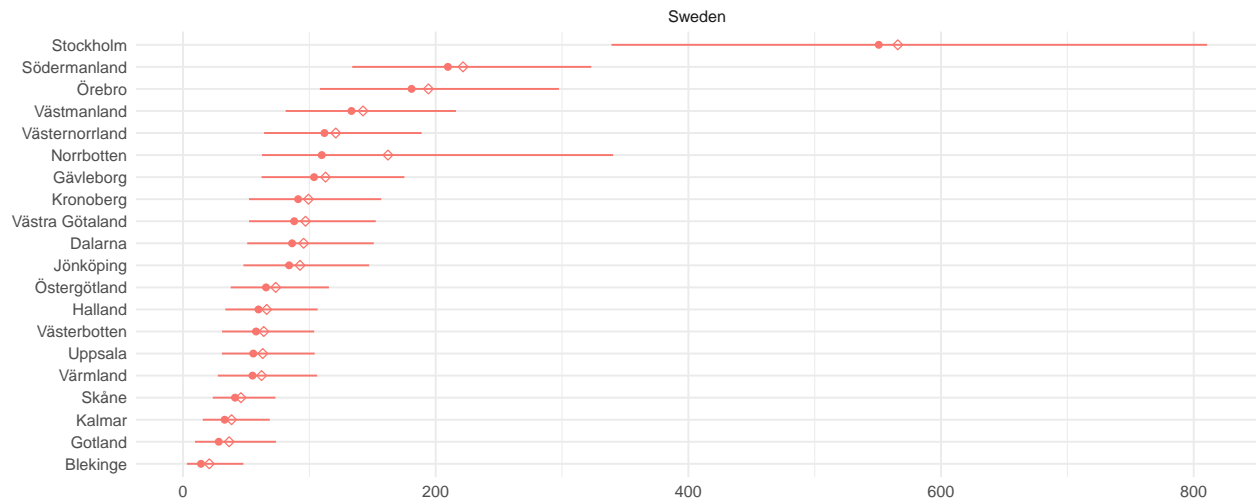
Vertical dotted lines represent the first seeding day and the epidemic start date.  
Ribbons represent the 80% credible intervals.



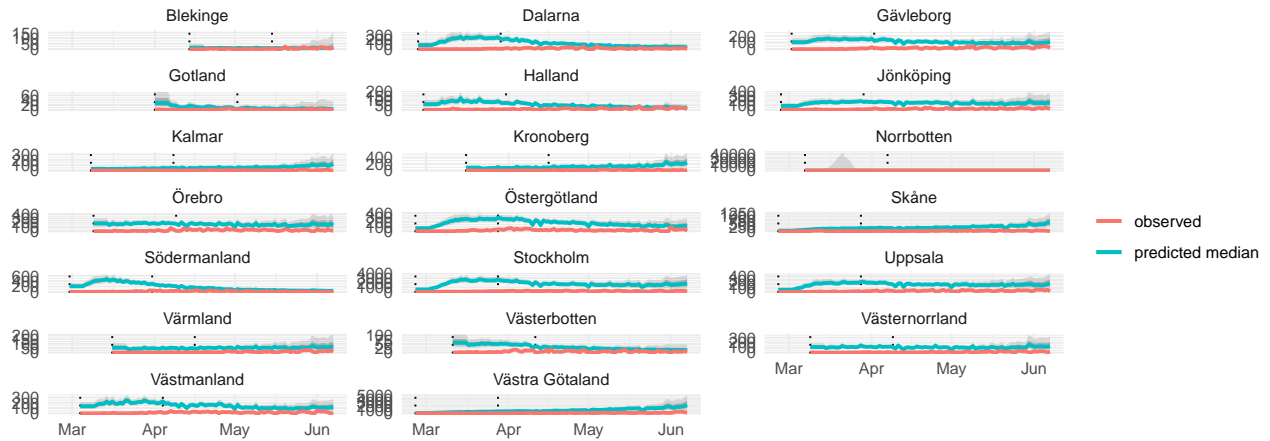
Mobility linear model:  $\beta_1 \cdot X_{\text{residential}} + \beta_2 \cdot X_{\text{transit}} + \beta_3 \cdot X_{\text{average}}$ .



### Imputed Cases

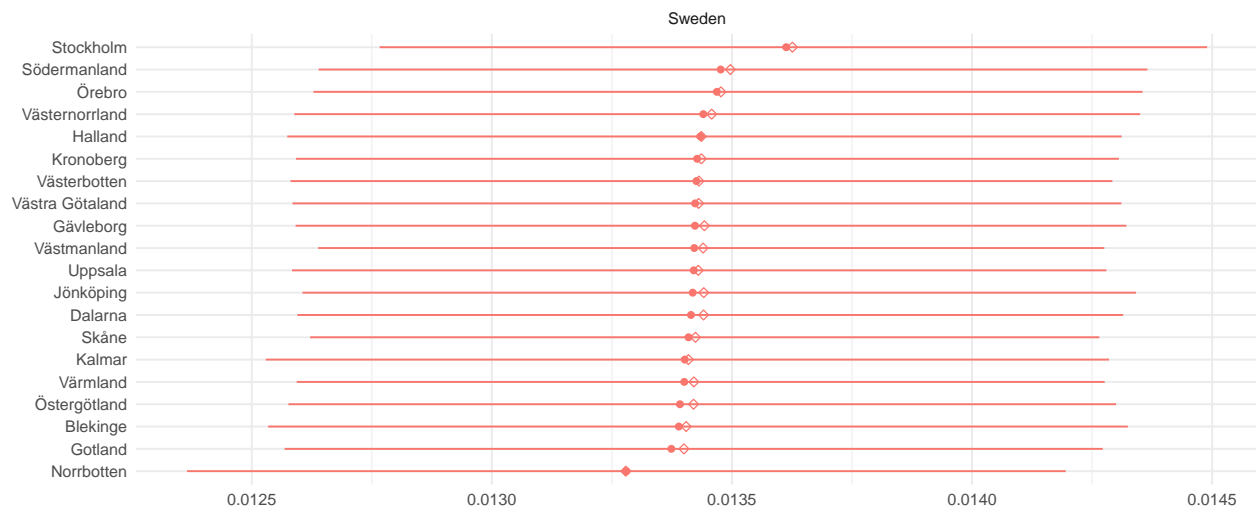


### New Cases predicted vs observed



Solid black line: observed new deaths. Grey ribbon: posterior predicted new deaths. Vertical dotted lines represent the first seeding day and the epidemic start date.

### IFR



# Diagnostics

